

Day	Main Building (Ülikooli St. 18)	University Library (W. Struve St. 1)			Filiae Patriae Sorority house (W. Struwe St. 4)
		Aula	Conference room 1	Conference room 2	
Monday, 17.09.07					
8.30-12.50	Opening plenary session				
8,30	Opening address, Rector of Tartu University				
8,45	Opening talk by organising committee				
9,00	Mander & Nõges: <i>Wetlands and lakes in Estonia</i>				
9,20	Kadlec: <i>Comparison of free water and horizontal subsurface wetlands to treat nutrients and pollutants</i>				
10,00	Freeman: <i>Molecular and microbial advances in wetland research</i>				
Coffee break	Main Building, Tartu University Art Museum				
11,20	Mitsch: <i>Restoration of coastal and riverine wetlands</i>				
12,00	Nriagu: <i>Heavy metals in wetlands</i>				
Lunch 14.00-16.50	University Library (Struwe St. 1)				
	N, P & C cycling in constructed wetlands (CW)	Heavy metals and metalloids in CWs	N, P & C cycling in natural wetlands	Workshop on pesticide removal in CWs	
14,00	Headley et al: <i>Vertical flow wetlands for sewage treatment: Effect of loading rate, plants and media size</i>	Vymazal et al: <i>Heavy metals and other risk elements in Phragmites australis growing in constructed wetlands for the treatment of municipal wastewater</i>	Ellis & Freeman: <i>Export of carbon from peatlands under a changing climate</i>	Grégoire et al: <i>Mitigation of agricultural nonpoint-source pesticide pollution and phytoremediation in artificial wetland ecosystems</i>	

14,20	Kantawanichkul et al: The performance of unsaturated vertical flow constructed wetlands treating high COD and nitrogen wastewater	Lesage et al: <i>Removal of heavy metals in constructed wetlands for treatment of domestic wastewater in Flanders, Belgium</i>	Fenner & Freeman: <i>Interactive effects of elevated CO₂ and warming on peatland DOC release</i>	Grégoire & Madier: <i>Impact of the strategies of sampling on the accuracy of pesticides flows</i>
14,40	Kurup: <i>Dynamics of nitrogen removal from meat processing effluent using experimental sub-surface flow constructed wetlands</i>	Paulo et al: <i>Aquatic plants for uranium reclamation in constructed wetlands</i>	Craft et al: <i>Effects of accelerated sea level rise on C, N and P retention by tidal marshes: A landscape simulation</i>	Huguenot et al: <i>Characterization and isolation of rhizospheric microorganisms from sediments accumulated in a constructed wetland for their ability to enhance copper phytoextraction</i>
15,00	Van de Moortel et al: <i>Treatment of combined sewer overflows: Surface versus subsurface flow constructed wetlands</i>	Dudel et al: <i>Significance of biomass quality and plant surface for metal and metalloid immobilisation in wetlands</i>	Saito et al: <i>Nutrient transport in an extensive tidal flat with great tidal variation in South Korea</i>	Tournebize et al: <i>Experimental approach to mitigate pesticide pollution from a subsurface drained watershed by artificial wetlands</i>
Coffee break 15,50	Kadlec et al: <i>Lagoon effluent polishing in a FWS treatment wetland at Brighton, Ontario</i>	University Library (Struwe St. 1)		Alarcon Herrera et al: <i>Potential of arsenic removal in constructed wetlands</i>
				Ostle et al: <i>Plant functional groups and peatland ecosystem carbon dynamics</i>
				Grégoire, Lebeau & Reeb. <i>Treatment of runoff waters and sediments from vineyard origin polycontaminated by herbicides (glyphosate and diuron) and copper: constructed wetland design based on bioaugmentation-phytoremediation coupling</i>
		Faecal microbial coliforms in CWs		
16,10	Søvik & Mørkved: <i>Use of stable nitrogen isotope fractionation to estimate denitrification in small constructed wetlands treating agricultural runoff</i>	Sukias et al: <i>Buffering capacity of a constructed wetland during an accidental dairy farm pollution event</i>	Laas & Nöges: <i>Long-term changes of N and P retention in Lake Vörtsjärv, the influence of catchment processes and climate</i>	Tapia-Padilla et al: <i>Artificial wetland modelling for pesticides fate and transport using a 2D Mixed Hybrid Finite Element approximation: Part 1</i>
16,30	Thiere et al: <i>Retention capacity achievements versus climate gas emission by constructed agricultural wetlands</i>	Münch et al: <i>Investigations of the reduction efficiency of hygienic relevant germs and bacteriophages in different horizons of a vertical flow constructed wetland</i>	Pihlak & Nöges: <i>Changes in the nutrient loading and retention of large transboundary Lake Peipsi from the 1990s to the 2000s</i>	Wanko et al: <i>Artificial wetland modelling for pesticides fate and transport using a 2D Mixed Hybrid Finite Element approximation: Part 2</i>
16,50		Kimwaga & Kavishe: <i>Effects of loading rates on the removal of fecal coliform from constructed wetlands in Tanzania</i>	Rücker & Schrautzer: <i>Nutrient balances based on high frequency measurements in a small lowland stream</i>	Elsaesser et al: <i>Mitigation of pesticide pollution in vegetated agricultural surface waters: The role of vegetation</i>
17.10-18.15 18.20-20.00		Poster session (University Library) Guided city tour		

Tuesday, 18.09.07

8.00-10.00

N, P & C cycling in constructed wetlands (CW) (continued)

Heavy metals and metalloids in natural wetlands

Functioning of plants in wetland ecosystems

Workshop on wetland systems to control runoff in urban areas

8,00

Vymazal et al: *The removal of organics and suspended solids in HF constructed wetlands in the Czech Republic: 15 years of experience*

Ukonmaanaho et al: *Does a heavy metal load affect organic matter accumulation in ombrotrophic peat bogs – a case study in Finland*

MacKenzie et al: *Plant species diversity enhances remediation efficiency and increases wildlife potential within treatment wetlands*

Scholz et al: *Assessment of experimental constructed wetlands treating urban runoff contaminated with nitrogen*

8,20

Nivala et al: *Proactive operations and maintenance (O&M) of cold-climate subsurface flow constructed wetland treatment systems*

Acquavita et al: *Anthropogenic inputs of mercury in a Northern Adriatic lagoon environment*

Taylor et al: *Choosing plant species to optimize aerobic processes in wastewater treatment wetlands*

Yazdi & Scholz: *Stormwater infiltration and detention systems treating road runoff*

8,40

Kato et al: *First year performance of a real-scale hybrid wetland system for the treatment of dairy wastewater in a cold climate in Japan*

Almeida et al: *Influence of mixed contaminants in the rhizoremediation potential of *Halimiones portulacoides**

Wang: *Sewage sludge purification efficiencies in vertical-flow wetland system: is the plant species important?*

Headley et al: *Floating treatment wetlands for removal of fine particulates, copper and zinc from urban stormwater*

9,00

Bavor: *Spatial linked factors and nitrogen transformation in horizontal and vertical flow constructed wetland systems.*

Válega et al: *Mercury mobility in a salt marsh colonised by *Halimiones portulacoides**

Chazarenc et al: *Biofilm accumulation and activity in constructed wetlands: effect of artificial aeration and plant species*

Welker & Dittmer: *Heavy metals in vertical flow constructed wetlands for enhanced CSO treatment*

9,20

Fonder & Xanthoulis: *Pollutant cycling and removal processes within a subsurface horizontal flow constructed wetland*

Rinklebe et al: *Dynamics of arsenic in floodplain soils at the Elbe River*

Tanner et al: *Comparison of wetland plant root-zone oxygen release rates measured using a standardised titanium citrate assay*

Overall et al: *Assessing the risk to denitrification in urban wetlands from heavy metals*

9,40

Gouriveau et al: *Constructed Farm Wetlands (CFW) for remediation of farmyard runoff: An evaluation of their water treatment efficiency, ecological value and cost-effectiveness*

Konnerup, Koottatep, Brix: *Use of *Heliconia* and *Canna lilies* in tropical constructed wetlands*

Fan & Ko: *Pollutant removals of an urban riparian artificial wetland and its reconstruction in Taipei Basin after Typhoon Aere*

Coffee break

10,30

Korkusuz & Langergraber: *Nitrogen removal performance of natural and artificial filter substrates used as media in vertical flow filters*

University Library (Struwe St. 1)

Du Laing et al: *Factors affecting metal concentrations in reed plants (*Phragmites australis*) of intertidal marshes in the Scheldt estuary (Belgium)*

McNamara et al: *Influence of plant diversity on CH₄ processes and populations in a UK peatland ecosystem*

Scholz & Hedmark: *Integration of trees into sustainable urban drainage systems*

10,50	Köiv et al: <i>Phosphorus removal by hydrated calcium-rich ash in experimental soil filters</i>	Letpens et al: <i>Growth and heavy metal uptake of poplar and willow species on river banks under freshwater tidal or seasonal flooding</i>	Weisner et al: <i>Influence of alternative states on nitrogen removal in experimental wetlands</i>	Verhoeven C et al: <i>P removal with a vertical flow reedbedfilter in a large urban water system</i>
11,10	Maltais-Laundry et al: <i>Effect of artificial aeration and macrophyte species on nitrogen cycling and gas flux in constructed wetlands</i>	Veretennikova: <i>Features of the biogeochemistry of heavy metals of an oligotrophic bog in the southern taiga of Western Siberia</i>	Desmet et al: <i>About quantifying the contribution of plant uptake to nutrient retention: the example of a vegetated river</i>	Biernacki: <i>Aquatic contamination and 12-year changes in leaf-to-root surface area ratios in Vallisneria americana</i>
11,30	Wallace et al: <i>Oxygen transfer efficiency in aerated subsurface flow wetlands</i>		Pierobon et al: <i>Trapa natans L. mediated CO₂ and CH₄ emission from an oxbow lake</i>	
11,50	Mayes et al: <i>Caustic/vitriolic: Wetland treatment at extremes of pH</i>		Sepp & Ilomets: <i>The effect of phosphorus on the growth and chlorophyll fluorescence of the peat moss Sphagnum magellanicum Brid</i>	
Lunch	University Library (Struwe St. 1)			
13.20-17.10	N, P & C cycling in constructed wetlands (CW) (continued)	Molecular/microbial advances in wetland research	Organic pollutants in wetlands	Workshop on wetland modelling
13,20	Schultz et al: <i>Temperature and organic loading rate effects in model treatment wetlands</i>	Sleytr & Tietz: <i>Microbial diversity in constructed wetlands: A comparison between different systems via T-RFLP</i>	Braeckevelt et al: <i>Removal of monochlorobenzene and perchloroethene from groundwater in laboratory-scale constructed wetlands</i>	Langergraber: <i>Simulation of the treatment performance of outdoor subsurface flow constructed wetlands in temperate climates</i>
13,40	Rousseau & Santa: <i>Quantification of oxygen transfer pathways in horizontal subsurface-flow constructed wetlands</i>	Sundberg et al: <i>High taxonomic diversity of ammonia oxidising bacteria in overland flow areas treating landfill leachates</i>	Dordio et al: <i>Sorption behavior of granular matrices for application in pharmaceutical removal by SSF constructed wetlands</i>	Toscano et al: <i>Modelling of pollutant removal in a pilot-scale two-stage subsurface flow constructed wetland</i>
14,00	Nurk et al: <i>Nutrient accumulation and microbial parameters in LWA-based hybrid constructed wetlands</i>	Weber & Legge: <i>Taking constructed wetland research into the laboratory</i>	Llorens et al: <i>Water quality improvement in a tertiary created wetland: effects on conventional and specific organic contaminants</i>	Sandoval-Cobo & Peña: <i>Performance analysis of SSF wetlands in tropical regions based on first-order kinetic models for the removal of organic matter</i>
14,20	Vereijken et al: <i>Reed filters for surface water sanitation and biomass production</i>	Jones et al: <i>Impacts of elevated atmospheric ozone on peatland carbon cycling</i>	Matamoros et al: <i>Removal of pharmaceutical and personal care products from domestic wastewater in vertical and horizontal subsurface-flow constructed wetlands and sand filters and its comparison with activated sludge systems</i>	Mena et al: <i>Simulation of the hydraulic and the removal efficiency of pilot horizontal subsurface flow constructed wetlands treating domestic wastewater with different plants: Phragmites australis and Lythrum salicaria</i>

14,50	<i>Williams & Cooper: Evaluation and review of methods for the assessment of sludge build up in sub-surface horizontal flow reed bed treatment systems</i>	<i>Imfeld et al: Assessment in situ biodegradation of trans- and cis-dichloroethene in groundwater treated in a laboratory-scale constructed wetland</i>	<i>Chung et al: Impacts of root exudates on mineralisation of phenanthrene</i>	<i>Meyer et al: Development of a long-term pollution-load model to simulate CWs for CSO treatment</i>
Coffee break	University Library (Struwe St. 1)			
	Redox sensitive processes and N, P & C cycling in wetlands	Molecular/microbial advances in wetland research (continued)	Organic pollutants in wetlands (continued)	Workshop on wetland modelling (continued)
15,30	<i>Austin & Wallace: Energy requirements for nitrification and biological nitrogen removal in engineered wetlands</i>	<i>Welker & Wozniak: The influence of different filter sands on the purification capacity and oxygen digestion in vertical flow constructed wetlands for CSO treatment</i>	<i>Muñoz et al: Effects of deltamethrin in denitrification activity from a wetland soils in the Basque Country</i>	<i>Koskiaho: Prospects of modelling constructed wetlands in an agricultural catchment in southwestern Finland with SWAT</i>
15,50	<i>Kruk & Podbielska: Biogeochemical factors influencing C:P and N:P stoichiometry in types of Sphagnum bog vegetation under elevated N deposition</i>	<i>Arroyo Hernandez et al: Comparative analysis of the bacterial community composition in a full-scale pilot plant constructed wetland for municipal wastewater treatment, a pilot plant treating metal polluted water and a pilot scale plant for swine wastewater treatment</i>	<i>Merbach et al: The influence of the polycyclic aromatic hydrocarbon phenanthrene of the growth, development and root exudation of Sorghum bicolor (L.) Moench</i>	<i>McKergow et al: Modelling wetland extent using terrain indices, Lake Taupo, NZ</i>
16,10	<i>Zhou et al: Nutrient polluted river water treatment and biomass production using hybrid wetland systems with forage rice in Japan</i>	<i>Milenkovski et al: Denitrification in constructed wetlands in Southern Sweden</i>	<i>Zhao et al: The distribution and sources of polycyclic aromatic hydrocarbons in sediments of the Mai Po wetland and marshes of Hong Kong</i>	Evaluation of ecological effects <i>Van der Geest et al: Rapid screening of sediment toxicity using a new fluorescence based test with benthic diatoms</i>
16,30	<i>Zhou et al: The littoral zone as the dominant area for internal nitrogen removal in eutrophic Taihu Lake</i>	<i>Kängsepp et al: Study of microbial community structure along leachate treatment system based on filter-bed technology</i>		<i>Van Duinen et al: Response of invertebrates to nutrient enrichment and restoration: A comparative study in Estonian and Dutch raised bog pools</i>
16,50	<i>Cabezas & Comin: Carbon and nitrogen sequestration in the middle Ebro floodplains (NE Spain)</i>	<i>Davies et al: Integrated study of the role of Phragmites australis in azo-dye treatment in a constructed wetland: from pilot to molecular scale</i>		<i>Van Duinen et al: Nutrient enrichment changes start of invertebrate food webs in raised bog ponds</i>
17.10-18.15	Poster session (University Library)			
19,00	Symposium dinner (University History Museum, Lossi St. 25)			

Wednesday, 19.09.2007

9.00-18.00 3 concurrent one-day trips to: (1) Võrtsjärv Lake; (2) Endla Nature Reserve (Männikjärve bog), Peipsi Lake and Vooremaa landscape; (3) South-East Estonia

Thursday, 20.09.07

9.00-10.40

University Library (Struwe St. 1)

Wetland restoration and biogeochemical processes

Lamers et al: *Internal eutrophication often overlooked*

9,00

Wetlands' role in catchment management I: Riparian zone & CWs

Lischeid et al: *Quantitative analysis of climatic and hydrological controls on solute dynamics in the riparian zone*

Wetlands' role in catchment management II: Natural & semi-natural wetlands

Andersson et al: *Estimating wetland non-point source nutrient removal – a comparison of methods and two Swedish regions*

Hydrological and ecological processes in CWs

Giraldi et al: *Hydrodynamic of vertical subsurface flow constructed wetlands: tracer tests with rhodamine WT and numerical modelling*

9,20

Geurts et al: *Sediment pore water ratios as a diagnostic and prognostic tools for the restoration of aquatic biodiversity in fens*

Antheunisse et al: *Nitrogen and phosphorus removal in a nine-year old riparian zone in the Netherlands; input by agricultural run off and highly enriched brook water*

Gudkov & Nazarov: *Long-term radioactive contamination of flood-lands within the Chernobyl exclusion zone*

Peña et al: *Changes in flow patterns in SSF constructed wetlands for domestic wastewater treatment in the tropics*

9,40

Augustin et al: *N₂O, CH₄, and CO₂ exchange dynamics after flooding and rewetting of degraded fen grassland sites in Northeast Germany*

Väänänen et al: *Retention of phosphorus by wetland buffer zone areas at six forested catchments in southern Finland*

Zak & Gelbrecht: *Evaluation of the phosphorus mobilisation potential in rewetted fens by a modified chemical extraction procedure*

Chague-Goff et al: *Nutrient stripping of runoff from dairy land conversions on the West Coast of New Zealand*

10,00

Beltman et al: *Liming wetlands, an unpredictable restoration measure*

Ehde & Weisner: *Nutrient retention in constructed wetlands in an agricultural landscape in southwest Sweden*

Rothwell et al: *Modelling suspended sediment lead concentrations in contaminated peatland catchments using digital terrain analysis*

10,20

Banaszuk & Wysocka-Czubaszek: *Fractions of phosphorus in bottom strata of restored watercourse in a swampy river valley*

Harrington et al: *An investigation of water-vectored ammonium within hydrosphere of 'Integrated Constructed Wetlands' (ICW) with special focus on groundwater and associated receptors*

Moreno: *Future rural scenarios in Mediterranean Europe: The creation of wetlands in agricultural catchments*

Coffee break

11.20-12.30

University Library (Struwe St. 1)

Plenary session

Craft: *Tidal marshes and climate change (preliminary title)*

11,20

12,00

Brix et al: *The role of macrophyte-derived organic carbon for denitrification in treatment wetlands*

Lunch

University Library (Struwe St. 1)

**Aula, Main Building,
Ülikooli St.18**

14.00-16.00 **Closing plenary
session**

14,00 Dise: *Atmospheric deposition,
microbial cascades and
ecosystem responses*

14,40 Verhoeven et al: *Wetland
restoration for biodiversity or
environmental quality:
landscape considerations*

15,20 Closing remarks and
conclusions

Remark: Red color indicates papers' authors not compiled the registration yet